



Fats and Oils: Oilseed Crashings, Production, Consumption and Stocks

ISSN: 2379-9862

Released November 1, 2016, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA).

Highlights

August 2016 contained 31 days.

September 2016 contained 30 days.

Soybeans crushed for crude oil was 4.15 million tons (138 million bushels) in September 2016, compared to 4.22 million tons (141 million bushels) in August 2016 and 4.04 million tons (135 million bushels) in September 2015. Crude oil produced was 1.62 billion pounds down 2 percent from August 2016 but up 6 percent from September 2015. Soybean once refined oil production at 1.37 billion pounds during September 2016 decreased 4 percent from August 2016 and decreased 2 percent from September 2015.

Canola seeds crushed for crude oil was 213 thousand tons in September 2016, compared to 174 thousand tons in August 2016 and 187 thousand tons in September 2015. Canola crude oil produced was 183 million pounds up 25 percent from August 2016 and up 16 percent from September 2015. Canola once refined oil production at 176 million pounds during September 2016 was up 54 percent from August 2016 and up 31 percent from September 2015. Cottonseed once refined oil production at 37.4 million pounds during September 2016 was down 3 percent from August 2016 and down 21 percent from September 2015.

Edible tallow production was 68.8 million pounds during September 2016, down 14 percent from August 2016 and down 20 percent from September 2015. Inedible tallow production was 311 million pounds during September 2016, up 2 percent from August 2016 and up 15 percent from September 2015. Technical tallow production was 104 million pounds during September 2016, down 12 percent from August 2016 but up 23 percent from September 2015. Choice white grease production at 112 million pounds during September 2016 decreased 2 percent from August 2016 and decreased 5 percent from September 2015.

Soybean Crushing, Production, Consumption and Stocks – United States: September 2016 with Comparisons

Item	September 2015	August 2016	September 2016
Crush			
Soybeans crushed tons	4,036,896	4,218,789	4,148,008
Crude oil produced.....1,000 pounds	1,531,282	1,642,478	1,616,609
Cake and meal produced tons	2,974,159	3,111,301	3,042,315
For animal feed tons	2,934,985	3,049,231	2,999,215
For edible protein products..... tons	39,174	62,070	43,100
Millfeed produced..... tons	200,994	217,058	215,143
Refine			
Crude oil processed in refining1,000 pounds	1,435,640	1,455,355	1,399,750
Once refined oil produced1,000 pounds	1,396,101	1,426,954	1,370,563
Consumption			
Crude oil removed for inedible use in processing1,000 pounds	(D)	113,176	132,793
Once refined oil removed for use in processing.....1,000 pounds	1,344,392	1,535,765	1,389,129
Removed for edible use in processing.....1,000 pounds	1,098,750	1,175,567	1,101,844
Removed for inedible use in processing1,000 pounds	245,642	360,198	287,285
Stocks			
Cake and meal on hand end of month..... tons	240,755	247,799	233,715
Millfeed on hand end of month tons	19,709	26,866	30,171
Crude oil on hand end of month1,000 pounds	1,516,385	1,666,531	1,417,400
Crusher1,000 pounds	736,754	705,836	600,477
Refiner1,000 pounds	275,561	279,621	259,927
Offsite1,000 pounds	504,070	681,074	556,996
Once refined oil on hand end of month.....1,000 pounds	338,433	319,212	300,388

(D) Withheld to avoid disclosing data for individual operations.

Soybean Crushing – Regional: September 2016 with Comparisons

Region	Soybeans crushed		
	September 2015	August 2016	September 2016
	(tons)	(tons)	(tons)
Illinois	484,419	472,761	451,253
Iowa.....	875,192	1,093,723	970,697
North and East ¹	1,016,594	897,159	985,484
North Central ²	591,078	653,307	592,748
South, West and Pacific ³	509,672	483,971	495,385
West Central ⁴	559,941	617,868	652,441
Region	Crude oil produced		
	September 2015	August 2016	September 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	187,146	188,449	174,081
Iowa.....	327,503	420,591	372,202
North and East ¹	381,500	348,789	384,123
North Central ²	223,883	255,972	239,857
South, West and Pacific ³	198,914	188,670	190,805
West Central ⁴	212,336	240,007	255,541
Region	Crude oil stocks at crusher		
	September 2015	August 2016	September 2016
	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)
Illinois	164,881	128,644	77,781
Iowa.....	103,783	151,834	112,590
North and East ¹	175,137	184,115	155,045
North Central ²	176,772	156,947	156,933
South, West and Pacific ³	49,694	36,478	54,250
West Central ⁴	66,487	47,818	43,878
Region	Cake and meal produced		
	September 2015	August 2016	September 2016
	(tons)	(tons)	(tons)
Illinois	355,560	342,981	327,487
Iowa.....	649,413	812,026	714,785
North and East ¹	746,864	658,529	721,657
North Central ²	441,511	482,264	436,066
South, West and Pacific ³	366,874	355,686	357,654
West Central ⁴	413,937	459,815	484,666
Region	Cake and meal stocks		
	September 2015	August 2016	September 2016
	(tons)	(tons)	(tons)
Illinois	44,165	34,570	43,807
Iowa.....	42,035	53,075	48,268
North and East ¹	53,217	38,239	51,805
North Central ²	26,602	26,997	23,354
South, West and Pacific ³	38,902	46,089	35,939
West Central ⁴	35,834	48,829	30,542

¹ North and East includes Indiana, Kentucky, Maryland, Ohio, Pennsylvania and Virginia.

² North Central includes Michigan, Minnesota, North Dakota and South Dakota.

³ South, West, and Pacific includes Alabama, Arkansas, California, Georgia, Louisiana, North Carolina and South Carolina.

⁴ West Central includes Kansas, Missouri and Nebraska.

Selected Oilseed Crushing, Production, Consumption and Stocks – United States: September 2016 with Comparisons

Item	September 2015	August 2016	September 2016
Canola			
Crush			
Seeds crushed..... tons	187,362	174,164	213,176
Crude oil produced..... 1,000 pounds	157,247	146,060	183,019
Cake and meal produced..... tons	103,385	101,353	120,435
Refine			
Crude oil processed in refining..... 1,000 pounds	141,649	118,238	179,376
Once refined oil produced..... 1,000 pounds	134,121	114,497	175,943
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	157,011	144,025	159,696
Removed for edible use in processing..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Cake and meal on hand end of month..... tons	(D)	(D)	(D)
Crude oil on hand end of month..... 1,000 pounds	(D)	252,305	(D)
Once refined oil on hand end of month..... 1,000 pounds	67,337	48,571	52,629
Cottonseed			
Crush			
Seeds crushed..... tons	116,505	109,126	119,113
Crude oil produced..... 1,000 pounds	36,021	32,792	37,298
Cake and meal produced..... tons	54,485	47,094	54,805
Refine			
Crude oil processed in refining..... 1,000 pounds	49,427	38,906	38,373
Once refined oil produced..... 1,000 pounds	47,255	38,445	37,352
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	-	(D)	-
Once refined oil removed for use in processing..... 1,000 pounds	39,487	34,482	40,806
Removed for edible use in processing..... 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Stocks			
Cake and meal on hand end of month..... tons	42,316	22,364	19,676
Crude oil on hand end of month..... 1,000 pounds	(D)	(D)	(D)
Once refined oil on hand end of month..... 1,000 pounds	48,635	43,057	40,849
Coconut			
Refine			
Crude oil processed in refining..... 1,000 pounds	46,965	49,399	40,421
Once refined oil produced..... 1,000 pounds	45,628	49,050	40,199
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing..... 1,000 pounds	72,119	76,175	83,491
Removed for edible use in processing..... 1,000 pounds	(D)	(D)	39,082
Removed for inedible use in processing..... 1,000 pounds	(D)	(D)	44,409
Stocks			
Crude oil on hand end of month..... 1,000 pounds	108,123	104,214	(D)
Once refined oil on hand end of month..... 1,000 pounds	25,782	32,382	62,791
Corn			
Refine			
Crude oil processed in refining..... 1,000 pounds	(S)	(S)	(S)
Once refined oil produced..... 1,000 pounds	(S)	(S)	(S)
Consumption			
Crude oil removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(S)
Once refined oil removed for use in processing..... 1,000 pounds	(S)	(S)	(S)
Removed for edible use in processing..... 1,000 pounds	(S)	(S)	(S)
Removed for inedible use in processing..... 1,000 pounds	(S)	(S)	(S)
Stocks			
Crude oil on hand end of month..... 1,000 pounds	(S)	(S)	(S)
Once refined oil on hand end of month..... 1,000 pounds	(S)	(S)	(S)

See footnote(s) at end of table.

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**Selected Oilseed Crushing, Production, Consumption and Stocks – United States: September 2016
with Comparisons (continued)**

Item	September 2015	August 2016	September 2016
Olives			
Crush			
Crushed for oil tons	(D)	-	-
Virgin oil produced 1,000 pounds	(D)	-	-
Refine			
Refined oil produced 1,000 pounds	(D)	(D)	(D)
Consumption			
Refined oil removed for use in processing 1,000 pounds	(D)	(D)	(D)
Removed for edible use in processing 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Stocks			
Virgin oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Refined oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Palm kernel			
Consumption			
Once refined oil removed for use in processing 1,000 pounds	33,570	31,827	35,833
Removed for edible use in processing 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Stocks			
Once refined oil on hand end of month 1,000 pounds	86,719	84,844	94,899
Palm			
Consumption			
Once refined oil removed for use in processing 1,000 pounds	177,219	189,395	188,248
Removed for edible use in processing 1,000 pounds	165,349	179,142	178,212
Removed for inedible use in processing 1,000 pounds	11,870	10,253	10,036
Stocks			
Once refined oil on hand end of month 1,000 pounds	364,151	437,181	417,024
Peanut			
Refine			
Crude oil processed in refining 1,000 pounds	25,271	28,824	29,131
Once refined oil produced 1,000 pounds	23,134	25,514	25,197
Consumption			
Crude oil removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Once refined oil removed for use in processing 1,000 pounds	23,048	25,943	25,487
Removed for edible use in processing 1,000 pounds	23,048	(D)	(D)
Removed for inedible use in processing 1,000 pounds	-	(D)	(D)
Stocks			
Crude oil on hand end of month 1,000 pounds	21,213	13,793	(D)
Once refined oil on hand end of month 1,000 pounds	(D)	(D)	(D)
Sunflower			
Refine			
Crude oil processed in refining 1,000 pounds	22,773	44,032	41,204
Once refined oil produced 1,000 pounds	21,675	41,737	38,751
Consumption			
Crude oil removed for inedible use in processing 1,000 pounds	(D)	(D)	232
Once refined oil removed for use in processing 1,000 pounds	26,731	52,451	40,028
Removed for edible use in processing 1,000 pounds	(D)	(D)	(D)
Removed for inedible use in processing 1,000 pounds	(D)	(D)	(D)
Stocks			
Crude oil on hand end of month 1,000 pounds	(D)	52,124	47,449
Once refined oil on hand end of month 1,000 pounds	20,869	29,444	28,307
Vegetable foots, raw and acidulated			
Refine			
Oil produced 1,000 pounds	28,941	(D)	(D)
Consumption			
Oil removed for inedible use in processing 1,000 pounds	31,753	(D)	(D)
Stocks			
Oil on hand end of month 1,000 pounds	22,835	(D)	(D)

- Represents zero.

(D) Withheld to avoid disclosing data for individual operations.

(S) Insufficient number of reports to establish an estimate.

Animal Fats and Oils Production, Consumption and Stocks – United States: September 2016 with Comparisons

Item	September 2015 (1,000 pounds)	August 2016 (1,000 pounds)	September 2016 (1,000 pounds)
Choice white grease			
Production.....	118,144	114,603	112,210
Removed for inedible use.....	122,376	115,996	111,355
Stocks on hand end of month.....	12,490	11,268	13,081
Fatty acids			
Production.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
Feather meal			
Production.....	100,570	101,611	97,227
Stocks on hand end of month.....	20,082	20,373	18,457
Glycerin, crude			
Production.....	(S)	(S)	(S)
Processed in refining.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
Glycerin, refined			
Production.....	(S)	(S)	(S)
Stocks on hand end of month.....	(S)	(S)	(S)
Lard			
Production.....	31,434	27,542	30,362
Removed for use in processing.....	30,654	28,872	29,845
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	6,436	8,276	9,144
Meat meal, meat and bone meal, and dry rendered tankage			
Production.....	493,284	523,656	489,899
Stocks on hand end of month.....	51,930	49,067	58,728
Other grease			
Production.....	78,227	53,022	50,357
Removed for inedible use in processing.....	80,407	50,439	52,161
Stocks on hand end of month.....	(D)	(D)	(D)
Poultry fats			
Production.....	199,998	220,418	209,691
Removed for inedible use in processing.....	190,134	217,721	211,902
Stocks on hand end of month.....	22,899	24,937	22,814
Poultry by-product meals			
Production.....	261,440	269,451	259,490
Stocks on hand end of month.....	60,971	59,168	57,958
Tallow, edible			
Production.....	85,849	79,711	68,841
Removed for use in processing.....	95,652	81,365	69,200
Removed for edible use in processing.....	(D)	(D)	(D)
Removed for inedible use in processing.....	(D)	(D)	(D)
Stocks on hand end of month.....	29,013	16,737	17,062
Tallow, inedible			
Production.....	270,022	304,113	310,999
Removed for inedible use in processing.....	277,329	304,938	311,672
Stocks on hand end of month.....	93,732	82,904	84,274
Tallow, technical			
Production.....	84,581	117,708	103,861
Removed for inedible use in processing.....	108,020	124,528	111,198
Stocks on hand end of month.....	10,016	10,432	13,136
Yellow grease			
Production.....	169,938	172,990	185,830
Removed for inedible use in processing.....	184,272	164,968	177,841
Stocks on hand end of month.....	83,656	84,021	89,932

(D) Withheld to avoid disclosing data for individual operations.

(S) Insufficient number of reports to establish an estimate.

Statistical Methodology

Survey Procedures: *Fats and Oils: Oilseed Crushings, Production, Consumption and Stocks* is part of the Current Agricultural Industrial Reports (CAIR) program. CAIR reports are administered under NASS's Census of Agriculture program. Response to CAIR surveys are required by law (Title 7, U.S. Code). Animal and vegetable fats and oils data are collected from all known facilities that crush, refine or render. Crushing facilities include processors that use either solvent extraction or continuous screw press.

The census universe was determined during operation profile interviews which were completed for each potential facility to identify the presence of rendering, oilseeds crushing, and crude oil refining in 2014.

In the Animal and Vegetable Fats and Oils survey questionnaire, facilities are asked for previous calendar month data on oilseed crushing, crude oil production, once refined oil production, rendering production, and end of month stocks. Facilities are mailed questionnaires with the options of completing the survey by mail or by Electronic Data Reporting (EDR). For surveys not received in a reasonable amount of time, telephone follow-up is conducted.

Estimating Procedures: Imputation is done for operations with non-response by using historical data and current data relationships. Data for reporting firms are added to estimates for non-reporting firms to obtain National totals.

Revision Policy: Data are revised the following month based on late reports or corrected data. Final figures are published in the annual summary of the following year.

Reliability: Survey data are based on a census of all known facilities and therefore, have no sampling variability. Monthly data can vary due to different firms reporting month to month. Survey data are also subject to non-sampling errors such as omissions and mistakes in reporting and in processing the data. While these errors cannot be measured directly, they are minimized by carefully reviewing all reported data for consistency and reasonableness.

Information Contacts

Listed below are the commodity statisticians in the Environmental, Economics, and Demographics Branch of the National Agricultural Statistics Service to contact for additional information. E-mail inquiries may be sent to nass@nass.usda.gov.

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Stephanie Brennan – Field Crops Chemical Use	(202) 690-0392
Natasha Bruton – Current Agricultural Industrial Reports.....	(202) 720-7644
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